## Type-B, CVN-77, Nov 2011

## INCLINED LADDER REMOVABLE / RETRACTABLE HANDRAIL EXTENSION

## FEEDBACK FORM

In response to feedback from fleet sailors and the Naval Safety Center, NAVSEA is investigating alternatives to enhance the design of handrails on shipboard inclined ladders in way of hatches. Your review of this design prototype will help us in efforts to provide the safest and most efficient products to serve your needs. Further information on this project may be found at:

http://www.public.navy.mil/navsafecen/Pages/Afloat/Surface/SWLaddersSaf.aspx.

The inclined ladder removable / retractable handrail extension was installed as a prototype for evaluation in accordance with the following activities:

Defense Safety Oversight Council (DSOC) Naval Safety Center

NAVSEA 05Z

Naval Surface Warfare Center (NSWC) Code 974

Note: There are two handrail extension designs that are being evaluated. Please verify the ladder location and type in all feedback responses.

- A. Removable Handrail Extension This design has a removable upper handrail section that is stowed on the deck above the inclined ladder.
- B. Retractable Handrail Extension This design has a retractable upper handrail section that stows within the lower handrail of the inclined ladder.

Please provide feedback to the questions below in addition to any comments, questions or recommendations. It is recommended that the ship's Safety Officer and Damage Control Assistant collect all comments, complete and forward this form to the contact listed.

1. Have any	falls or other accid	dents occurred on	this ladder since th	ne removable /
retractable h	andrail extension n	modification has b	een accomplished	?
	Yes No	o X		
	If Yes, please ex	xplain	N/A_	
2. In your ol	oservation, has the	presence of the re	movable / retracta	ble handrail extension
prevented ar	ny falls?			
Î	Yes X	No		
	If Yes, please ex	xplainHand	lrails help greatly	when transiting from
the v	vet hangar bay to th	he ladder well, he	ps stability, less s	lipping and less
prob	lems with carrying	gear from Hange	r Bay up ladder w	ell
3. Has the re	emovable / retractal	ble handrail exten	sion caused any o	perational problems
since installe	ed?			
	YesNo	o_X		

Inspected by De (su) Hazrisus

If	Yes, please explai	n	N/A	
4. Compared wit	h the original chair	n handrail design, l	now would you ra	ite the
effectiveness of	the removable / ret	ractable handrail e	xtension?	
Much worse: Trial version creates operation problems	Not quite as good: Might create operational problems	About as good/ no big change	A little better: Less likely to create problems	Much better: Much less apt to create operational problems
-2	-1	0	+1	+2
Please explain:	ŀ	Handrails help grea	tly when transiting	ng from the wet
Hangar Bay to th	ne ladder well, help			
	m Hanger Bay up			
cuit juig gour ite	m runger say ap			
5 Use the remov	able / retractable h	andrail extension	caused any access	problems either
			laused ally access	problems, enner
6	r stowed position?			
	es No		2.21	
If	Yes, please explai	n	N/A	
à)				
6. Have there be	en any problems w	ith the removable	retractable hands	rail extension in
the installed pos	ition?			
Y	es X No	)		
	Yes, please explai		stanchions are n	nade of a smaller
				he side to bow out
	llowing the hand ra			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	es in railing when h			
inic ap with noic	in ranning when i	and ran pins are in	prace	
the stowed posit			retractable hand	rail extension in
Y	es No	X		
If	Yes, please explai	n	N/A	
	1			
8. Please estimat	e how many times	the removable / re	tractable handrail	extension has
	d removed / extend			
occir mounted at	ia ioino voa / oxton	aca ana remacted r	or material crossing.	
None	1-5	6-10	11-20	> 20
LVOILE	1-3	0-10	11.70	1 / 20

9. Please estimate if the time required for closing the hatch been adversely affected by the removal and stowage / retraction of the handrail extension?

Much worse: Trial version takes much longer to remove and store	Not quite as good: Trial version takes a little longer to remove and store	About as good/ no big change	A little better; Trial version is a little easier/quicker to remove and store	Much better: Trial version is much easier/quicker to remove and store
-2	-1	0	+1	+2

Please explain:

				20			
		ow excessive signs	of wear or other d				
TE Y	esX No	n <u>_1-T</u> op supporti	na brookate etartin	a to enva	dapart		
Щ	i es, piease expiai		oles getting larger		а аран		
		_2-Ladder pin no	oles getting larger	, warped			
11 Has the hand	rail extension requ	ired any repair or i	modification since	installati	0112		
	es X No	and the second of the second o					
		n_1-Need to re-tig	ghten handrail bolt	s about o	nce to		
	to short studded f						
12. Please provid	le an overall evalu	ation of how the ha	andrail extension a	iffects lad	der		
safety.							
X4.1	NY ita aaad	I Albandan and I	A 1:41-1-4	No. 1	tter: Trial		
Much worse: Much less safe	Not quite as good: Not quite as safe	About as good/ no big change	A little better: Trial version is a	version is			
than current design	as current design	org change	little safer than	improvement for			
		A40.085 pro-100.000 miles	current design	safety			
-2	-1	0	+1		+2		
		its, please list here				i	
		prefer to have a har			ain, also		
commented on ea	ase being able to ti	ransit with gear up	and down the lade	ier well.			
Dagamma	ad having those in	stallad on laddows u	vhora a bathroom	e un one	doola		
		stalled on ladders v to transit up and de				i	
this creates a big		to transit up and to	OWII TAUGETS WITH	WCL SHOW	JI 3110C3		
uns creates a big	stip nazaru						
Thank you for yo	our feedback.						
Thank you for yo	our feedback.						
	our feedback.	back form to:					
		back form to:					
Please forward th							
Please forward the Naval Surface W 5001 South Broad	nis completed feed Varfare Center (NS d Street						
Please forward the Naval Surface W 5001 South Broat Philadelphia, PA	nis completed feed Varfare Center (NS d Street 19112					Manager of the Control of the Contro	
Please forward the Naval Surface W 5001 South Broat Philadelphia, PA Attn: Ken DiFon	nis completed feed Varfare Center (NS d Street 19112 zo, Code 974					The second secon	
Please forward the Naval Surface W 5001 South Broat Philadelphia, PA	nis completed feed Varfare Center (NS d Street 19112 zo, Code 974					A Company of the Comp	

Hatch requires 3 personnel to close now vice the normal 2